

Application Serial No.: 09/611,923
Attorney Docket No.: 00CON137P

List of Claims:

Claim 1 (Currently Amended): A method of spoofing for use by a first modem, wherein said first modem is in a modem communication with a second modem, wherein a first communication point-to-point protocol (PPP) layer is in a PPP communication with a second communication PPP layer via said modem communication, and wherein said PPP communication includes a link configuration packet, an echo request packet and an echo reply packet, said method comprising ~~the steps of:~~

monitoring PPP data packets, including said link configuration packet, communicated by said second PPP layer to said first PPP layer via said modem communication;

obtaining a magic number from said link configuration packet by said first modem; interrupting said PPP communication such that no PPP data packets are communicated between said second PPP layer and said first PPP layer via said modem communication;

receiving a detecting said echo request packet from said first communication PPP layer, destined for said second PPP layer, by said first modem after said interrupting; and creating said echo reply packet by said first modem in response to said detecting said echo request packet;

inserting said magic number by said first modem into said echo reply packet; and responding to said echo request packet by said first modem by transmitting said

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echo reply packet including said magic number to said first PPP layer.

Claim 2 (Currently Amended): The method of claim 1, wherein said interrupting step includes placing said modem communication on hold.

Claim 3 (Currently Amended): The method of claim 1, wherein said ~~communication is via a communication link between a first modem and a second modem~~ responding prevents said first PPP layer from disconnecting said PPP communication.

Claims 4-8 (Cancelled)

Claim 9 (Currently Amended): The method of claim & 1, wherein said ~~magic~~ number is acquired from link configuration packet is a Configure-Request packet.

Claim 10 (Currently Amended): The method of claim & 1, wherein said ~~magic~~ number is acquired from link configuration packet is a Configure-Ack packet.

Claims 11-19 (Cancelled)

Claim 20 (Currently Amended): A ~~communication system~~ first modem in a modem communication with a second modem, wherein a first point-to-point protocol

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(PPP) layer is in a PPP communication with a second PPP layer via said modem communication, and wherein said PPP communication includes a link configuration packet, an echo request packet and an echo reply packet, said first modem comprising:

a controller;

a first ~~communication~~ PPP layer interface controlled by said controller, wherein said first PPP layer interface interfaces with said first PPP layer;

a second ~~communication~~ PPP layer interface controlled by said controller, wherein said second PPP layer interface interfaces with said second PPP layer via said modem communication; and

a spoofing module controlled by said controller;

wherein said spoofing module monitors said ~~first communication~~ second PPP layer interface for PPP data packets, including said link configuration packet, communicated by said second PPP layer to said first PPP layer via said modem communication, and wherein said spoofing module obtains a magic number from said link configuration packet, and causes a signal to be transmitted through said communication interface

wherein after an interruption in said PPP communication that causes no PPP data packets to be communicated between said second PPP layer and said first PPP layer via said modem communication, said controller detects said echo request packet from said first PPP layer destined for said second PPP layer, and wherein said controller creates said echo reply packet in response to said echo request packet, inserts said magic number into said echo reply packet, and responds to said echo request packet by transmitting said echo

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reply packet including said magic number to said first PPP layer.

Claim 21 (Currently Amended): The system first modem of claim 20, wherein said ~~signal includes information gathered by said spoofing module while monitoring said first communication interface~~ interruption places said modem communication on hold.

Claim 22 (Currently Amended): The system first modem of claim ~~21~~ 20, wherein said ~~first communication interface includes a transmitter and a receiver, and wherein said information is gathered while monitoring said transmitter~~ link configuration packet is a Configure-Request packet.

Claim 23 (Currently Amended): The system first modem of claim ~~21~~ 20, wherein said ~~first communication interface includes a transmitter and a receiver, and wherein said information is gathered while monitoring said receiver~~ link configuration packet is a Configure-Ack packet.

Claim 24 (Currently Amended): The system first modem of claim ~~21~~ 20, wherein said ~~communication interfaces are in communication with PPP layers, and said information includes a magic number~~ transmission of said echo reply packet by said controller prevents said first PPP layer from disconnecting said PPP communication.

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Claims 25-26 (Cancelled)

Claim 27 (New): A method of spoofing for use by a first modem, wherein said first modem is in a modem communication with a second modem, wherein a first protocol layer is in a protocol communication with a second protocol layer via said modem communication, and wherein said protocol communication includes a first packet, a second packet and a third packet, said method comprising:

monitoring protocol data packets, including said first packet, communicated by said second protocol layer to said first protocol layer via said modem communication;

obtaining a number from said first packet by said first modem;

interrupting said protocol communication such that no protocol data packets are communicated between said second protocol layer and said first protocol layer via said modem communication;

detecting said second packet from said first protocol layer, destined for said second protocol layer, by said first modem after said interrupting;

creating said third packet by said first modem in response to said detecting said second packet;

inserting said number by said first modem into said third packet; and

responding to said second packet by said first modem by transmitting said third packet including said number to said first protocol layer.

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Claim 28 (New): The method of claim 27, wherein said interrupting includes placing said modem communication on hold.

Claim 29 (New): The method of claim 27, wherein said protocol communication is a point-to-point protocol (PPP) communication.

Claim 30 (New): The method of claim 29, wherein said responding prevents said first PPP layer from disconnecting said PPP communication.

Claim 31 (New): The method of claim 29, wherein said first packet is a Configure-Request packet.

Claim 32 (New): The method of claim 29, wherein said second packet is an echo request packet.

Claim 33 (New): The method of claim 29, wherein said third packet is an echo reply packet.

Claim 34 (New): The method of claim 29, wherein said number is a magic number.

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Claim 35 (New): A first modem in a modem communication with a second modem, wherein a first protocol layer is in a protocol communication with a second protocol layer via said modem communication, and wherein said protocol communication includes a first packet, a second packet and a third packet, said first modem comprising:

a controller;

a first protocol layer interface controlled by said controller, wherein said first protocol layer interface interfaces with said first protocol layer;

a second protocol layer interface controlled by said controller, wherein said second protocol layer interface interfaces with said second protocol layer via said modem communication; and

a spoofing module controlled by said controller;

wherein said spoofing module monitors said second protocol layer interface for protocol data packets, including said first packet, communicated by said second protocol layer to said first protocol layer via said modem communication, and wherein said spoofing module obtains a number from said first packet, and

wherein after an interruption in said protocol communication that causes no protocol data packets to be communicated between said second protocol layer and said first protocol layer via said modem communication, said controller detects said second packet from said first protocol layer destined for said second protocol layer, and wherein said controller creates said third packet in response to said second packet, inserts said number into said third packet, and responds to said second packet by transmitting said

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third packet including said number to said first protocol layer.

Claim 36 (New): The first modem of claim 35, wherein said interruption places said modem communication on hold.

Claim 37 (New): The first modem of claim 35, wherein said protocol communication is a point-to-point protocol (PPP) communication.

Claim 38 (New): The first modem of claim 37, wherein transmission of said third packet by said controller prevents said first PPP layer from disconnecting said PPP communication.

Claim 39 (New): The first modem of claim 37, wherein said first packet is a Configure-Request packet.

Claim 40 (New): The first modem of claim 37, wherein said second packet is an echo request packet.

Claim 41 (New): The first modem of claim 37, wherein said third packet is an echo reply packet.

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Claim 42 (New): The first modem of claim 37, wherein said number is a magic number.